Listing of Claims

This listing of claims replaces all prior versions, and listings, of claims in the application:

(Currently Amended) An apparatus comprising:
 a plasma produced light electromagnetic radiation source;
 one or more collector optics; and

a magnetic field generator operative to generate a magnetic field around the one or more collector optics, the magnetic field generator comprising windings around a non-reflective surface in the one or more collector optics.

- 2. (Original) The apparatus of claim 1, wherein the windings comprise at least one of a wire, a bump, and an electret fiber.
- 3. (Previously Presented) The apparatus of claim 1, further comprising a potential difference between the windings and the non-reflective surface.
- 4. (Original) The apparatus of claim 1, wherein the collector optics comprise a plurality of nested shells, the shells including reflective surfaces and non-reflective surfaces.

- 5. (Previously Presented) The apparatus of claim 4, wherein the magnetic field generator comprises a current supply connected to one or more of the nested shells and operative to provide a current along a length of said one or more nested shells.
- 6. (Previously Presented) The apparatus of claim 4, wherein the magnetic field generator comprises a voltage supply connected between a reflective side and a non-reflective side of one or more of said nested shells.
- 7. (Original) The apparatus of claim 4, wherein the magnetic field generator comprises:
 - a first additional shell around the collector optics;
- a second additional shell inside the nested shells in the collector optics; and
- a voltage supply operative to provide a potential difference between the first additional shell and the second additional shell.
- 8. (Original) The apparatus of claim 1, further comprising:
- a plurality of foil traps between the source and the collector optics.

- 9. (Currently Amended) The apparatus of claim 1, wherein the light electromagnetic radiation source comprises an extremeultraviolet (EUV) light electromagnetic radiation source.
 - 10. (Currently Amended) An apparatus comprising:

 a plasma produced light electromagnetic radiation source;

 one or more collector optics; and

a magnetic field generator operative to generate a magnetic field around the one or more collector optics, the magnetic field generator comprising a solenoid structure adjacent wrapped around a non-reflective reflective surface in the one or more collector optics.

- 11. (Currently Amended) The apparatus of claim 10, wherein the <u>light electromagnetic radiation</u> source comprises an extreme-ultraviolet (EUV) <u>light electromagnetic radiation</u> source.
- 12. (Original) The apparatus of claim 10, further comprising: a plurality of foil traps between the source and the collector optics.

13. (Currently Amended) A method comprising:

generating a magnetic field around collector optics in a lithography system with windings around a non-reflective surface in the collector optics; and

deflecting debris particles generated by a plasma producing light electromagnetic radiation source from a reflective surface in the collector optics.

- 14. (Previously Presented) The method of claim 13, wherein deflecting the debris particles comprises deflecting the debris particles toward a non-reflective surface in the collector optics.
- 15. (Original) The method of claim 13, wherein the windings comprise at least one of a wire, a bump, and an electret fiber.
- 16. (Previously Presented) The method of claim 13, further comprising introducing a potential difference between the windings and the non-reflective surface.
- 17. (Original) The method of claim 13, wherein the collector optics comprise a plurality of nested shells, the shells including a reflective surface and a non-reflective surface.

- 18. (Previously Presented) The method of claim 17, wherein deflecting the debris particles comprises deflecting the debris particles from a reflective side of one shell to the non-reflective surface of an adjacent shell.
- 19. (Previously Presented) The method of claim 17, wherein generating the magnetic field comprises providing a current along a length of each of said nested shells.
- 20. (Previously Presented) The method of claim 17, wherein generating the magnetic field comprises introducing a potential difference between the reflective side and the non-reflective side of each nested shell.
- 21. (Previously Presented) The method of claim 17, wherein generating the magnetic field comprises introducing a potential difference between a first additional shell around the collector optics and a second additional shell inside the nested shells in the collector optics.
- 22. (Original) The method of claim 13, further comprising: capturing debris particles with foil traps between the source and the collector optics.

- 23. (Original) The method of claim 13, wherein the lithography system comprises an Extreme Ultraviolet (EUV) lithography system.
 - 24. (Currently Amended) A method comprising:

generating a magnetic field around collector optics in a lithography system with a solenoid structure adjacent wrapped around a non-reflective reflective surface in the collector optics; and

deflecting debris particles generated by a plasma producing light electromagnetic radiation source from [[a]] the reflective surface in the collector optics.

- 25. (Previously Presented) The method of claim 24, further comprising capturing debris particles with foil traps between the source and the collector optics.
- 26. (Original) The method of claim 24, wherein the lithography system comprises an Extreme Ultraviolet (EUV) lithography system.
- 27. (New) The apparatus of claim 1, wherein the magnetic field generator comprising windings wrapped around an outside of the one or more collector optics.

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- 28. (New) The apparatus of claim 10, wherein the magnetic field generator is configured to generate a magnetic field having a magnitude and a direction effective to deflect a majority the charged species generated by the source of electromagnetic radiation.
- 29. (New) The apparatus of claim 28, wherein the magnetic field generator is configured to generate a magnetic field having a magnitude and a direction effective to deflect a single charge Xe ion having an energy of 640 eV.